

527 Rec'd PCT/PTC 03 NOV 2000

FORM PTO-1390 REV. 5-93		US DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE	ATTORNEYS DOCKET NUMBER <b>P00,1814</b>
<b>TRANSMITTAL LETTER TO THE UNITED STATES          DESIGNATED/ELECTED OFFICE (DO/EO/US)          CONCERNING A FILING UNDER 35 U.S.C. 371</b>			U.S. APPLICATION NO. (if known, see 37 CFR 1.5) <b>09/674755</b>
INTERNATIONAL APPLICATION NO. <b>PCT/DE99/01295</b>	INTERNATIONAL FILING DATE <b>03 May 1999</b>	PRIORITY DATE CLAIMED <b>08 May 1998</b>	
TITLE OF INVENTION <b>BROADBAND COMMUNICATION SYSTEM</b>			
APPLICANT(S) FOR DO/EO/US <b>Manfred Tasto and Kurt Aretz</b>			
Applicant herewith submits to the United States /Designated/Elected Office (DO/EO/US) the following items and other information:			
<ol style="list-style-type: none"> <li>1. <input checked="" type="checkbox"/> This is a <b>FIRST</b> submission of items concerning a filing under 35 U.S.C. 371.</li> <li>2. <input type="checkbox"/> This is a <b>SECOND</b> or <b>SUBSEQUENT</b> submission of items concerning a filing under 35 U.S.C. 371.</li> <li>3. <input checked="" type="checkbox"/> This express request to begin national examination procedures (35 U.S.C. 371(f)) at any time rather than delay.</li> <li>4. <input checked="" type="checkbox"/> A proper Demand for International Preliminary Examination will be made by the 19th month from the earliest claimed priority date.</li> <li>5. <input checked="" type="checkbox"/> A copy of International Application as filed (35 U.S.C. 371(c)(2))           <ol style="list-style-type: none"> <li>a. <input checked="" type="checkbox"/> is transmitted herewith (required only if not transmitted by the International Bureau).</li> <li>b. <input type="checkbox"/> has been transmitted by the International Bureau.</li> <li>c. <input type="checkbox"/> is not required, as the application was filed in the United States Receiving Office (RO/US)</li> </ol> </li> <li>6. <input checked="" type="checkbox"/> A translation of the International Application into English (35 U.S.C. 371(c)(2)).</li> <li>7. <input checked="" type="checkbox"/> Amendments to the claims of the International Application under PCT Article 19 (35 U.S.C. §371(c)(3))           <ol style="list-style-type: none"> <li>a. <input type="checkbox"/> are transmitted herewith (required only if not transmitted by the International Bureau).</li> <li>b. <input type="checkbox"/> have been transmitted by the International Bureau.</li> <li>c. <input type="checkbox"/> have not been made; however, the time limit for making such amendments has NOT expired.</li> <li>d. <input checked="" type="checkbox"/> have not been made and will not be made.</li> </ol> </li> <li>8. <input type="checkbox"/> A translation of the amendments to the claims under PCT Article 19 (35 U.S.C. 371(c)(3)).</li> <li>9. <input checked="" type="checkbox"/> An oath or declaration of the inventor(s) (35 U.S.C. 371(c)(4)). <b>Executed</b></li> <li>10. <input checked="" type="checkbox"/> A translation of the annexes to the International Preliminary Examination Report under PCT Article 36 (35 U.S.C. 371(c)(5)).</li> </ol>			
Items 11. to 16. below concern other document(s) or information included:			
<ol style="list-style-type: none"> <li>11. <input checked="" type="checkbox"/> An Information Disclosure Statement under 37 C.F.R. 1.97 and 1.98; (PTO 1449, Prior Art, Search Report).</li> <li>12. <input checked="" type="checkbox"/> An assignment document for recording. A separate cover sheet in compliance with 37 C.F.R. 3.28 and 3.31 is included.  <b>(SEE ATTACHED ENVELOPE)</b> </li> <li>13. <input checked="" type="checkbox"/> A FIRST preliminary amendment.  <input type="checkbox"/> A SECOND or SUBSEQUENT preliminary amendment.</li> <li>14. <input type="checkbox"/> A substitute specification.</li> <li>15. <input type="checkbox"/> A change of power of attorney and/or address letter.</li> <li>16. <input checked="" type="checkbox"/> Other items or information:           <ol style="list-style-type: none"> <li>a. <input checked="" type="checkbox"/> Submission of Drawings - One sheet of Drawings</li> <li>b. <input checked="" type="checkbox"/> EXPRESS MAIL #EJ077704156US dated November 3, 2000.</li> </ol> </li> </ol>			

S. APPLICATION NO. (if known, see 37 C.F.R. 1.5)

09/674755

INTERNATIONAL APPLICATION NO  
PCT/DE99/01295ATTORNEY'S DOCKET NUMBER  
P00,1814**BASIC NATIONAL FEE (37 C.F.R. 1.492(a)(1)-(5):**

Search Report has been prepared by the EPO or JPO ..... \$860.00

International preliminary examination fee paid to USPTO (37 C.F.R. 1.482) ..... \$670.00

No international preliminary examination fee paid to USPTO (37 C.F.R. 1.482) but  
international search fee paid to USPTO (37 C.F.R. 1.445(a)(2)) ..... \$760.00Neither international preliminary examination fee (37 C.F.R. 1.482) nor international search  
fee (37 C.F.R. 1.445(a)(2)) paid to USPTO ..... \$970.00International preliminary examination fee paid to USPTO (37 C.F.R. 1.482) and all claims  
satisfied provisions of PCT Article 33(2)-(4) ..... \$96.00**ENTER APPROPRIATE BASIC FEE AMOUNT =**

\$860.00

Surcharge of \$130.00 for furnishing the oath or declaration later than ☐ 20 ☐ 30 months from the  
earliest claimed priority date (37 C.F.R. 1.492(e)).

\$ 0

Claims

Number Filed

Number  
Extra

Rate

Total Claims

23

- 20 =

3

X \$ 18.00

\$54.00

Independent Claims

3

- 3 =

0

X \$ 80.00

\$ 0

Multiple Dependent Claims

\$270.00 +

\$

**TOTAL OF ABOVE CALCULATIONS =**

\$914.00

Reduction by 1/2 for filing by small entity, if applicable. Verified Small Entity statement must also be  
filed. (Note 37 C.F.R. 1.9, 1.27, 1.28)

\$

**SUBTOTAL =**

\$914.00

Processing fee of \$130.00 for furnishing the English translation later than ☐ 20 ☐ 30 months from  
the earliest claimed priority date (37 CFR 1.492(f)).

\$

**TOTAL NATIONAL FEE =**

\$914.00

Fee for recording the enclosed assignment (37 C.F.R. 1.21(h). The assignment must be  
accompanied by an appropriate cover sheet (37 C.F.R. 3.28, 3.31). \$40.00 per property

+

**TOTAL FEES ENCLOSED =**

\$914.00

Amount to be  
refunded

\$

charged

\$

a. ☒ A check in the amount of \$ **914.00** to cover the above fees is enclosed.b. ☐ Please charge my Deposit Account No. \_\_\_\_\_ in the amount of \$ \_\_\_\_\_ to cover the above fees. A duplicate  
copy of this sheet is enclosed.c. ☒ The Commissioner is hereby authorized to charge any additional fees which may be required, or credit any overpayment  
to Deposit Account No. **501519**. A duplicate copy of this sheet is enclosed.**NOTE:** Where an appropriate time limit under 37 C.F.R. 1.494 or 1.495 has not been met, a petition to revive (37 C.F.R. 1.137(a) or (b)) must be  
filed and granted to restore the application to pending status.**SEND ALL CORRESPONDENCE TO:**Schiff Hardin & Waite  
Patent Department  
71st Floor Sears Tower  
Chicago, Illinois 60606**SIGNATURE**Brett A. Valiquet**NAME**27,841**Registration Number**

- 1 -

BOX PCT

IN THE UNITED STATES ELECTED OFFICE  
OF THE UNITED STATES PATENT AND TRADEMARK OFFICE  
UNDER THE PATENT COOPERATION TREATY-CHAPTER II

5

PRELIMINARY AMENDMENT

APPLICANT: MANFRED TASTO ET AL

DOCKET NO: P00,1814

SERIAL NO:

GROUP ART UNIT:

EXAMINER:

10 INTERNATIONAL APPLICATION NO: PCT/DE99/01295

INTERNATIONAL FILING DATE: 03 May 1999

INVENTION: "BROADBAND COMMUNICATION SYSTEM"

Assistant Commissioner for Patents,  
Washington, D.C. 20231

15 Sir:

As a Preliminary Amendment for entry into the  
National Stage for the above-identified PCT application,  
the following is submitted:

IN THE ABSTRACT:

20 Please amend the Abstract as follows:

Delete "ABSTRACT" and substitute --ABSTRACT OF THE  
DISCLOSURE--.

Please delete the title after "ABSTRACT".

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5           At line 5, delete "(2)".

At line 7, delete "(1)".

At line 9, delete "(1)", delete "means" and  
10 substitute --unit--, delete "(5)".

At line 11, delete "(1)", before "communication"  
insert --a--, delete "(2)".

At line 13, delete "(2)".

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20      Delete Line 15.
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Please amend the specification as follows (where specification amendments are to the annex pages (substitute pages) that has been so indicated):

--S P E C I F I C A T I O N

after the title, as a separate line, insert

On substitute page 1, at line 3, delete "(1)".

On substitute page 1, at line 8, delete "requires [sic]" and substitute --require--.

5 On substitute page 1, at line 30, delete "To that end" and substitute --For that purpose--.

On substitute page 1a, at line 1, delete "fashioned" and substitute --designed-

On substitute page 1a, before line 5, insert the following title:

10 --SUMMARY OF THE INVENTION--.

On substitute page 1a, at line 7, delete "outlay" and substitute --expense--.

On substitute page 1a, at line 8, delete "the" and substitute --a--.

15 On substitute page 1a, at line 8, delete "disclosed".

On substitute page 1a, at the last line, delete "in claim 1".

20 On page 2, at line 2, after "equipment" insert --unit--.

On page 2, at line 3, delete "fashioned" and substitute --designed--.

On page 2, at line 4, delete "Developments and advantageous".

25 On page 2, delete line 5.

On page 2, at line 8, delete "outlay" and substitute --expense--.

On page 2, at line 19, delete "ensue" and substitute --occurs--.

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5 On page 3, at line 3, delete "stations, the control  
means" and substitute --stations. The control unit--.

On page 3, at line 6, before "what" insert --in--.

On page 3, at line 8, insert --,-- after "factory".

On page 3, at line 10, delete "ca" and substitute  
10 --can--.

On page 3, at line 14, delete "outlay" and  
substitute --expense--.

On page 3, at line 19, delete "drawing, where the  
sole" and substitute --drawing.--, delete "Figure 1 shows  
15 an".

On page 3, before line 20, insert the following  
heading:

**--BRIEF DESCRIPTION OF THE DRAWING--**

On page 3, at line 20, before "exemplary" insert  
20 --Figure 1 shows an--, delete "inventive", after "system"  
insert --of the invention--.

On page 3, before line 21, insert the following  
heading:

**--DESCRIPTION OF THE PREFERRED EMBODIMENTS--**

25 On page 3, at line 22, before "pointed" insert  
--be--.

On page 3, at line 29, delete "thereby" and  
substitute --therefore--.

On page 3, at the last line, delete "a matter of".

30 On page 4, at line 4, delete ",respectively,".

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On page 4, at line 26, delete "fashioned" and substitute --designed--.

On page 4, at line 28, delete ",respectively,".

On page 4, at line 29, delete ", respectively,".

On page 5, at line 3, delete "inventive", after "system" insert --of the invention--.

On page 5, at line 5, delete "outlay" and substitute --expense--.

On page 5, as the last paragraph, insert the following paragraph:

--Although various minor changes and modifications might be proposed by those skilled in the art, it will be understood that our wish is to include within the claims of the patent warranted hereon all such changes

and modifications as reasonably come within our contribution to the art.--

**IN THE CLAIMS:**

On page 6 of the claims, delete "PATENT CLAIMS" and  
5 substitute --**WE CLAIM AS OUR INVENTION**--.

Please cancel claims 1-16 without prejudice.

Please substitute claims 17-38 as follows:

17. A broadband communication system, comprising:  
a plurality of cordless communication devices  
10 connected to one another for cordless communication with  
at least one communication terminal within a  
communication cell; and

the cordless communication devices being connected  
to a power supply network and designed for broadband data  
15 transmission via the power supply network.

18. The communication system according to claim  
17 wherein the cordless communication devices are  
designed for cordless data transmission via radio.

20 19. The communication system according to claim  
17 wherein the cordless communication devices are  
designed for cordless data transmission via infrared  
radiation.

25 20. The communication system according to claim  
19 wherein the data transmission between the cordless  
communication devices and the communication terminal

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21. The communication system according to claim  
17 wherein the data transmission between the cordless  
5 communication device and the communication terminal  
occurs by higher-grade digital modulation.

10            23. The communication system according to claim  
19 wherein the infrared radiation has a wavelength from  
1200 nm to 1400 nm.

25. The communication system according to claim 17 further comprising a control unit for controlling data communication between the cordless communication devices.

27. The communication system according to claim 26 wherein the connection to the external communication

28. The communication system according to claim  
26 wherein the connection to the external communication  
5 network occurs via a radio connection.

10                    30.    The communication system according to claim  
17 wherein the communication cell is formed by a room in  
a building.

31. The communication system according to claim  
17 wherein the cordless communication devices are  
15 designed to be screwed into an incandescent bulb socket.

32. The communication system according to claim 31 wherein at least one of the cordless communication devices comprises its own incandescent bulb socket.

33. A broadband communication system, comprising:  
20 at least first and second cordless communication  
devices in respective first and second communication  
cells separated from each other by a wall, the first and  
second communication devices being connected to each  
other via a power supply network permitting broadband

at least one communication terminal within at least one of said first and second communication cells which communicates with at least one of the first and second cordless communication devices depending upon which cell the at least one cordless communication device is located in.

35. The system according to claim 33 wherein at least one of the cordless communication devices is screwed into a light bulb receptacle of the power supply network.

20            37.            A method for broadband communication,  
         comprising the steps of:  
                providing at least first and second cordless  
         communication devices located in respective first and  
         second communication cells;

5 making broadband data transmissions between the first and second cordless communication devices via the power supply network; and

38. The method according to claim 37 including the  
step of communicating in cordless fashion with the at  
least one communication terminal at a frequency greater  
than 100 GHz.

REMARKS

The specification and abstract have been amended in accordance with U.S. practice.

New claims 17 through 32 generally correspond to the PCT prosecuted claims but are drawn in accordance with U. S. format. Also, additional independent and dependent claims 33-39 have been provided.

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Attorneys for Applicants

## BROADBAND COMMUNICATION SYSTEM

The invention is directed to a broadband communication system with a plurality of cordless communication devices (1) connected to one another for cordless communication with at least one communication terminal device within a  
5 communication cell.

Demanding communication services such as the transmission of video data, for example for television transmission, video playback or picture telephony, requires [sic] high data rates on the order of magnitude of 10 megabits per second. The bandwidths currently employed in cordless telephones (DECT) or, respectively,  
10 in mobile radio telephony (for example, according to GSM standard) at carrier frequencies of approximately 900 MHz through approximately 2000 MHz are therefore no longer adequate for a cordless data transmission over short distances, for example in the house and garden area or in office buildings or the like. On the contrary, higher frequencies are needed, for example above 10 GHz.

The informational brochure "Innovationskolleg Kommunikationssysteme" of the Institute for Communications Technology of the Technical University Dresden proposes that radio frequencies in the region of 60 GHz be employed for cordless digital broadband data transmission within buildings. However, it is generally not possible to penetrate masonry at these high frequencies. A respective radio base  
15 station must therefore be installed in every room in which a cordless communication is to be possible.

The informational brochure "Multimedial Kommunikation auf integrierten Netzen und Terminals" of the Technical University Braunschweig, Institute for Communications Technology, dated 14 August 1997, proposes that the power supply  
20 network be utilized for the data transmission within buildings.

GB-A-2 229 022 discloses a system wherein electrical devices connected to a power lead via data terminal devices can be remotely controlled by control data packets via a control unit likewise connected to the power lead or an infrared remote control, whereby the control data packets can comprise a size of up to 43 bytes given  
30 a maximum transmission rate of 9600 bits/s. To that end, the data terminal devices

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5                   An object of the present invention is to enable a cordless broadband  
communication within buildings and in the environment of buildings with optimally  
low installation outlay.

This object is achieved by the broadband communication system disclosed in claim 1 comprising a plurality of cordless communication devices connected to one

5 improvements of the inventive communication system are described in the subclaims.

installation outlay.

10 and communication terminals can be implemented via radio, preferably at frequencies  
above 10 GHz.

15 present in the communication cell due to radio waves, which becomes greater with increasing frequency, is avoided. Due to its high intrinsic frequency, the infrared radiation enables a very broadband data transmission with up to several 100 megabits per second, 10 Mbit/s being thus unproblematically possible.

20 infrared base band or by higher-grade, digital modulation methods (OFDM, CDMA).

25 be exceeded for protecting the eyes.

infrared sources in this frequency range are at their development stage.

30 laser. Semiconductor infrared detectors are suitable as infrared receiver, these  
working in the frequency range of the respective infrared source.



The communication system can comprise a control means (5) for controlling the communication between the individual communication devices or base stations, the control means can also serve the purpose of producing a connection to an external communication network, for example the telephone network or a broadband  
 5 TV cable network with coaxial cable, optical fiber cable or via a radio connection as well, what is referred to as a wireless local loop.

A communication cell can be formed by a room in a building such as a residence, an office building or a factory or can be formed by a garden or courtyard area in the environment of the building. The installed power supply network, for  
 10 example a 230 volt network or a 110 volt network, can be co-utilized for the data transmission between the cordless communication devices or base stations with one another.

Preferably, the cordless communication devices can be screwed into an incandescent bulb socket, as a result whereof the installation outlay is further reduced.  
 15 In order to nonetheless create the possibility of room illumination at the location where the cordless communication device is arranged, the cordless communication device can preferably comprise an additional socket.

The invention is explained below on the basis of a preferred exemplary embodiment with reference to the drawing, wherein the sole Figure 1 shows an  
 20 exemplary embodiment of the inventive broadband communication system.

By way of example, Figure 1 shows the application of the present invention to communication within a residential building. However, let it be pointed out that the invention is definitely not limited to such applications. Of course, the communication cells can be rooms within an office building or can also be positioned  
 25 out of doors. It is important that a communication between the cordless communication device 1 and the communication terminal 2 is directly or indirectly possible, for example by reflection at walls, in every communication cell.

The cordless communication devices are schematically shown in the drawing and are referenced 1. This can thereby be a matter of a radio  
 30 transmitter/receiver that works at a frequency above 10 GHz, for example at 60 GHz. Preferably, the cordless communication device or the base station 1 can be a matter of

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The inventive broadband communication system enables a broadband cordless communication within buildings or in the environment of buildings, whereby the installation outlay is minimized.

the installation outlay is minimized.

**PATENT CLAIMS**

1. Broadband communication system comprising a plurality of cordless communication devices (1) connected to one another for cordless communication with at least one communication terminal (2) within a communication cell, whereby the cordless communication devices (1) are connectible to a power supply network and are fashioned for broadband data transmission via the power supply network (4).
2. Communication system according to claim 1, characterized in that the cordless communication devices (1) are fashioned for cordless data transmission via radio.
3. Communication system according to claim , characterized in that the cordless communication devices (1) are fashioned for cordless data transmission via infrared radiation.
4. Communication system according to claim 3, characterized in that the data transmission between cordless communication device (1) and communication terminal (2) ensues with amplitude modulation of the infrared base band.
5. Communication system according to claim 3, characterized in that the data transmission between cordless communication device (1) and communication terminal (2) ensues by higher-grade, digital modulation.
6. Communication system according to one of the claims 3 through 5, characterized in that the infrared radiation has a wavelength from 800 nm through 100 nm.
7. Communication system according to one of the claims 3 through 5, characterized in that the infrared radiation has a wavelength from 1200 nm through 1400 nm.

8. Communication system according to one of the claims 3 through 7, characterized in that the infrared source is a surface-emitting semiconductor laser (VCSEL).

9. Communication system according to one of the claims 1 through 8,  
5 characterized by a control means (5) for controlling the data communication between the cordless communication devices (1).

10. Communication system according to claim 9, characterized in that the control means (5) produces a connection to an external communication network.

11. Communication system according to claim 10, characterized in  
10 that the connection to the external communication network is produced with coaxial cable or optical fiber cable.

12. Communication system according to claim 10, characterized in that the connection to the external communication network ensues via a radio connection.

13. Communication system according to one of the claims 1 through  
15 12, characterized in that the cordless communication devices (1) are fashioned for data transmission via a 230 volt or a 110 volt power supply network.

14. Communication system according to one of the claims 1 through 13 characterized in that a communication cell is formed by a room in a building.

15. Communication system according to one of the claims 1 through  
20 14, characterized in that the cordless communication devices (1) can be screwed into an incandescent bulb socket.

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16. Communication system according to claim 15, characterized in that a cordless communication device comprises its own incandescent bulb socket.

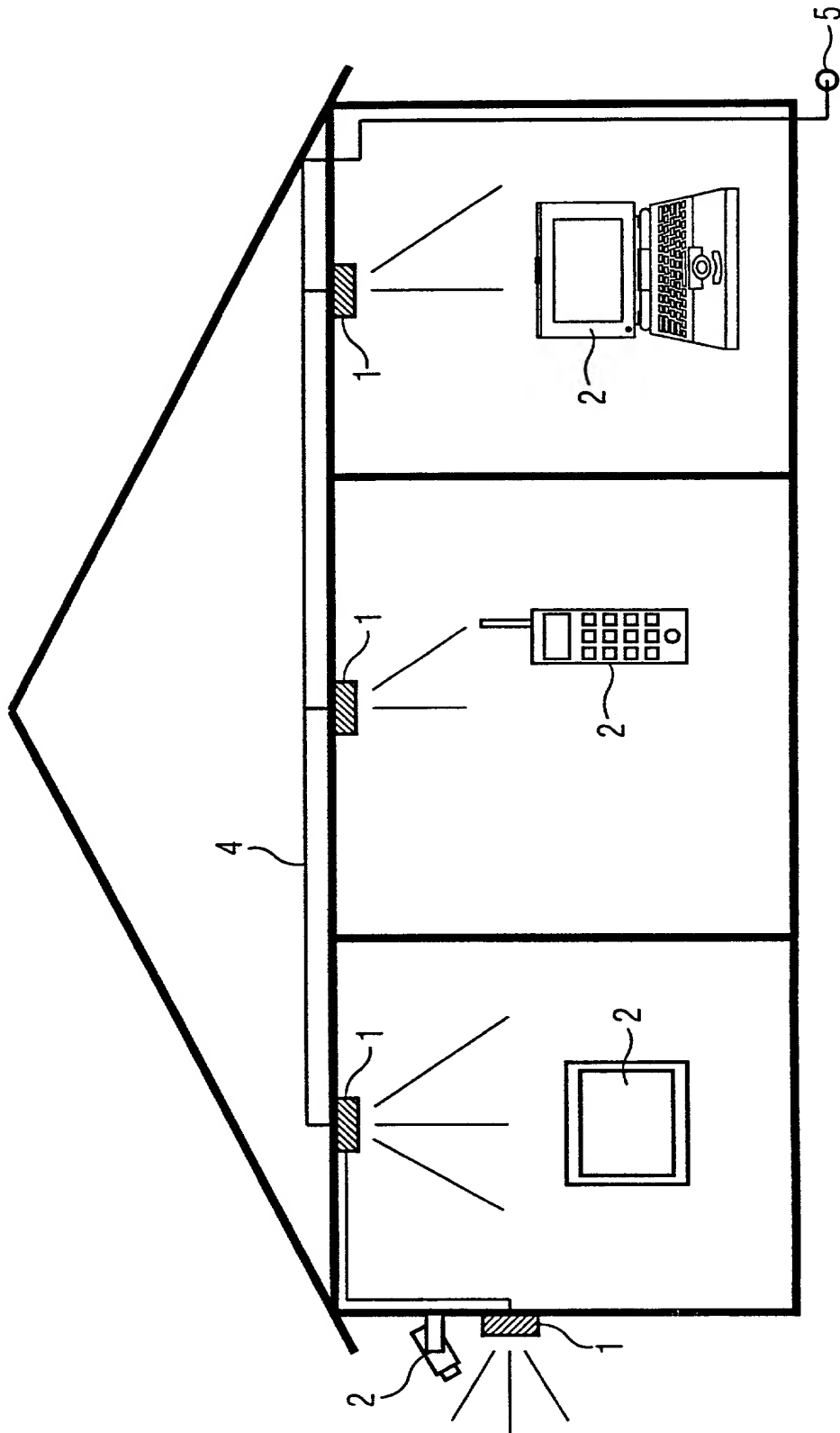
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**ABSTRACT****Broadband Communication System**

- A broadband communication system comprises a plurality of cordless communication devices (1) for cordless communication with at least one communication terminal (2), for example a cordless telephone, a television receiver or a lap top computer, within a communication cell. The cordless communication devices (1) are connectible to the power supply network of, for example, a building and are fashioned for broadband data transmission with the other cordless communication devices (1) and/or a control means (5) via the power supply network.
- 10 The cordless data transmission between cordless communication device or base station (1) and communication terminal (2) preferably ensues via infrared radiation. The invention enables a broadband cordless data transmission between various terminal devices (2) or from one terminal device to an external communication network given the lowest possible installation outlay.
- 15 Fig. 1

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## Patent and Trademark Office-U.S. DEPARTMENT OF COMMERCE

Variable	Mean	SD	Min	Max
Age	34.5	10.2	21	55
Gender	0.5	0.5	0	1
Marital status	0.6	0.5	0	1
Education	12.5	1.5	9	16
Income	15.2	8.5	5	35
Health status	1.2	0.8	0	3
Stress level	2.5	1.2	1	4
Life satisfaction	3.8	1.5	2	5
Work-life balance	2.1	1.0	1	4
Family support	3.5	1.2	2	5
Community involvement	1.8	0.9	0	3
Personal growth	2.9	1.1	1	4
Financial stability	2.3	1.0	1	4
Healthcare access	3.1	1.3	2	5
Education quality	2.7	1.1	1	4
Employment opportunities	2.0	0.9	1	3
Infrastructure development	3.3	1.2	2	5
Environmental quality	2.6	1.0	1	4
Social equality	3.0	1.1	2	4
Government effectiveness	2.4	1.0	1	4
Corruption levels	1.5	0.8	0	3
Political participation	2.2	0.9	1	3
Media freedom	3.6	1.2	2	5
Human rights	2.8	1.1	1	4
Religious freedom	3.2	1.3	2	5
Cultural diversity	2.5	1.0	1	4
Language policy	2.1	0.9	1	3
Historical legacy	3.4	1.2	2	5
Geographical location	2.9	1.1	1	4
Climate change impact	2.0	0.9	1	3
Disaster preparedness	3.7	1.3	2	5
Urbanization rate	2.3	1.0	1	4
Rural development	3.0	1.1	2	4
Infrastructure investment	2.7	1.0	1	4
Public services	3.1	1.2	2	5
Healthcare expenditure	2.5	1.0	1	4
Education expenditure	2.8	1.1	1	4
Infrastructure expenditure	2.2	0.9	1	3
Healthcare quality	3.3	1.2	2	5
Education quality	2.9	1.1	1	4
Infrastructure quality	2.6	1.0	1	4
Healthcare access	3.0	1.1	2	4
Education access	2.7	1.0	1	4
Infrastructure access	2.4	0.9	1	3
Healthcare quality	3.2	1.2	2	5
Education quality	2.8	1.1	1	4
Infrastructure quality	2.5	1.0	1	4
Healthcare access	3.1	1.2	2	5
Education access	2.7	1.0	1	4
Infrastructure access	2.4	0.9	1	3

Priority Claimed

☒☐

Yes  
Ja

No  
Nein

☐

□

Yes  
Ja

No  
Nein

☐

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Yes  
Ja

No  
Nein

I hereby claim the benefit under Title 35, United States Code, §120 of any United States application(s) listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in the prior United States application in the manner provided by the first paragraph of Title 35, United States Code, §122, I acknowledge the duty to disclose material information as defined in Title 37, Code of Federal Regulations, §1.56(a) which occurred between the filing date of the prior application and the national or PCT international filing date of this application.

(Status)  
(patented, pending,  
abandoned)

(Status)  
(patented, pending,  
abandoned)

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true, and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

# German Language Declaration

VERTRETUNGSVOLLMACHT: Als benannter Erfinder beauftrage ich hiermit den nachstehend benannten Patentanwalt (oder die nachstehend benannten Patentanwälte) und/oder Patent-Agenten mit der Verfolgung der vorliegenden Patentanmeldung sowie mit der Abwicklung aller damit verbundenen Geschäfte vor dem Patent- und Warenzeichenamt: (Name und Registrationsnummer anführen)

POWER OF ATTORNEY: As a named inventor, I hereby appoint the following attorney(s) and/or agent(s) to prosecute this application and transact all business in the Patent and Trademark Office connected therewith. (list name and registration number)

And I hereby appoint  
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